NATIONAL HISTORIC LANDMARK

THEME: Travel & Communications

Form	10-300
	6-72)

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

Maryland COUNTY:

STATE:

BA-143

NATIONAL REGISTER OF HISTORIC PLACES

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COMMON:							
	Thomas Vi	aduct					
AND/OR HISTORIC:				•			
	Thomas Vi	aduct					
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River Road	reet nort	hwest of U	S. Rou	te 95 .	NAL DISTRICT:		
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Site Stru	cture Priv	ate	☐ In Proc	***	Unoccupied	Restr	
☐ Object	☐ Both	,	☐ Being	Considered	Preservation work	₩ Unres	tricted
					in progress	□ No	
PRESENT USE (Check (one of More as A	ppropriate)					
☐ Agricultural	Government	Por	k	- 1	☐ Transportation	Comme	ents
☐ Commercial	☐ Industrial	☐ Pri	ate Reside		Other (Specify)		
☐ Educational	☐ Military	☐ Rel	igious		Viaduct		
☐ Entertainment	☐ Museum	☐ Scie	entific	_			
OWNER OF PROPERT	Y 3.78 (2010)	CALL CONTRACT		1 A SAC 5443		GLOCILLAN	90 X 200
OWNER'S NAME: Dros	ident Mr	John Hani	fin Cl	ocanoako	& OhioBaltin	nome 6	1-
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REPRESENTATION IN	EXISTING SU	RVEYS					3000
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Form 10-300a (July 1969)

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES

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(NATIONAL HISTORIC LARDIANKS)

(Continuation Sheet)

Maryland Maryland	
COUNTY	
Baltimore	
FOR NPS USE ON	ILY
ENTRY NUMBER	DATE

(Number all entries)

6. Representation (1)

Historic American Building Survey -- large property file, data sheets-photographs.

DESCRIPTION					en Maria e e	
				(Check One)		
	Excellent	☐ Good	☐ Fair	☐ Deteriorated	Ruins	☐ Unexposed
CONDITION		(Check Or	10)		(Che	ck One)
	⊠ Alte	red	☐ Unaltered		☐ Moved	Original Site

DESCRIBE THE PRESENT AND ORIGINAL (If known) PHYSICAL APPEARANCE

Constructed of local granite, the Thomas Viaduct has proven to be a lasting tribute to its designer, Benjamin H. Latrobe. The viaduct is 612 feet in length formed of eight semicircular arch spans varying in length from 58 feet 5 inches to 58 feet, 10-1/2 inches. Because of the route alignment at the time of construction, the structure was built on a four degree curve and stands 59 feet above the river. The floor is 26-feet wide, broad enough to hold a double track. In addition to the track, a wooden-floored walkway, 4-feet in width and supported by castiron brackets, is located on the deck of the viaduct. To aid pedestrains, ornamental cast iron railings were erected upon the outermost edge of the walkway. The granite is ashlar, roughly squared and dressed, laid in cement mortar, with openings at the crown of each arch. Pilasters, made of the same material, run from the top of each pier to the base. Crude in execution, they visually support the massive form of the viaduct while enhancing the harmonious proportion and inherent grace of the Roman arches. The structure contains 24,476 cubic yards of stone and cost \$142,236.51, to build. To counteract deterioration, the viaduct underwent repairs in 1938, performed by the Baltimore and Ohio Maintenance of Way Department. The work consisted mainly of improvements for drainage and the application of a grout mixture to the stone spandrel filling. At an unknown date railing blocks were removed from the north side of the deck and a bracketed walkway added, giving more lateral clearance. Thomas Viaduct is in excellent condition and has been in continuous service since its construction in 1835.

Thomas Viaduct is located on the Chesapeake and Ohio-Baltimore and Ohio Railroad at the point where it crosses the Patapsco River. This is approximately 2200 feet northwest of Interstate 95 at the point where it crosses the tracks of the C&O-B&O Railroad.

The Thomas Viaduct exists today in an area heavily built up with major highways extending from Baltimore to Washington. A modern road bridge towers above the viaduct on the south and tends to diminish the massive construction of the earlier structure. Because of existing intrusions the landmark boundary is drawn only to protect the structure itself and its approaches, a distance of 50-feet from each end of the Thomas Viaduct along the tracks of the railroad, including the railroad right of way property and the McCartney monument.

SIGNIFICANCE				
PERIOD (Check One or More ex Pre-Columbian; 15th Century	Appropriate) 16th Century 17th Century	☐ 18th Century 19th Century	20th Century	
SPECIFIC DATE(S) (If Applicat	ole and Known) 183	5		
AREAS OF SIGNIFICANCE (Ch. Aboriginal Prehistoric Historic Agriculture Architecture Art Commerce Communications Conservation	Education Education Industry Invention Landscape Architecture Literature Mulitary Music	Political Religion/Philosophy Science Sculpture Social/Humanitarian Theater	Urban Planning Other (Specity)	

Still in use today, the Thomas Viaduct, located on the Chesapeake and Ohio-Baltimore and Ohio Railroad line at the point where it crosses the Patapsco River, is the world's oldest multiple stone arched railroad bridge as well as America's earliest notable example of railroad bridge construction. Designed in 1835 by Benjamin H. Latrobe, a civil engineer and son of the architect of the same name, the bridge was, for its day, of massive size, the largest in the country, dwarfing all contemporary masonry works and marking the real beginning of the major railway structure in America. Still impressive today, the structure has required no major repairs or changes in its many years of service.

The original route of the Baltimore and Ohio Railroad left Baltimore City near its southwest corner, following the Patapsco River to Ellicott's Mills on its way westward. Shortly after this portion of the main stem had been in operation it was realized that a rail connection with the Nation's Capital was essential to the company's success, and construction was begun in 1832. Where the new line branched from the old at Relay, site of a former postroad hotel and changing point for stage horses, a crossing of the Patapsco River was necessary. The Patapsco span, designed by Benjamin H. Latrobe in 1835, was a structure remarkable in every aspect of its conception. In laying out the route, Latrobe had to provide for passage over the river which flowed through a deep ravine between Relay and Elkridge Landing. The route alignment required that the viaduct follow a four degree curve, giving rise to almost unprecedented problems of design and construction. The present structure illustrates his answer to the problem. Latrobe's design was executed by John McCartney, contractor, under the direction of Jonathan Knight, principal assistant engineer and Caspar Wever, superintendent of construction. When the structure was finished a 15-foot monument with the names of the builder, directors of the railroad, the architect, engineer, and others associated with the viaduct was constructed by the builder, John McCartney.

Until after the Civil War the B&O was the only railroad into Washington and was used by Federal forces for supply trains, with heavy guards stationed along the viaduct. The Baltimore and Ohio named the bridge the "Thomas Viaduct" after the company's president, Philip E. Thomas, illustrating the company's confidence in the structure. Some skeptical engineers however, thinking the bridge would collapse under its own weight

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Form 10-300a (July 1969)

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES

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8. Statement of Significance: (1) Thomas Viaduct

nicknamed the viaduct "Latrobe's Folly." The error in these predictions is proven by the bridge itself. Since August 25, 1835, the viaduct has remained in constant service, carrying every type of locomotive used in the B&O's long history from the original six-ton engines of the period to the 300-ton engines of today, with no alteration or major repair. All main line traffic between Baltimore and the west passed over the Thomas Viaduct until about 1870, when the main line was rerouted along the Washington Branch.

9.	MAJOR	BIBL10	GRAPHICA	L REFERENCE	S

"The Oldest Stone-Arch Railroad Bridge in the World: The Thomas Viaduct, Across the Patapsco River," The Scientific Monthly, XLI (October 1935), 381-383.

Hungerford, Edward , The Story of the Baltimore and Ohio Railroad, New York, 1928, vol. I, pp. 153, 166-67, 171-72.

Vogel, R. M., Unpublished report, Historic American Engineering Record, Office of Archeology and Historic Preservation, National Park Service, Department of the Interior, Washington, D.C., 1965.

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Phillip Thomas, President of the Baltimore and Ohio Railroad, secured the talents of a famous Baltimorean, Benjamin Latrobe, to design a bridge that would carry the trains over the gorge. John McCartney, an engineer from Ohio, was given the job of constructing it. Many people said that such a bridge could never be built; and, even if it would surely collapse under its own weight.

Construction was begun on July 4, 1832, and took three years to complete. When the finished, the bridge stretched in a four degree arc from the Baltimore County side of the Hip in river to the Howard County bank, a distance of 612 feet.

Eight elliptical arches measuring 57 feet 10½ inches to 58 feet 4½ inches supported to 6504 high structure. The height of the arches cerved two numbers. First, they were

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Eight elliptical arches measuring 57 feet 10½ inches to 58 feet 4½ inches supported the 60 foot high structure. The height of the arches served two purposes. First, they were of sufficient height to allow ships to pass freely under the bridge. The Patapsco River remained navigable until the flood of 1868 which reduced river traffic to barges and light crafts. Second, the wide openings would permit flood waters to rush through without destroying the bridge. The bridge was 26 feet wide, which allowed enough room for two tracts to be laid. The bridge was constructed of granite block quarried in Maryland. A total of 24,476 cubic yards of masonry was required. The final cost of the construction was \$142,236.51. A shrewd investment when one considers the fact that the bridge has withstood 140 years of constant use, five major floods, and numerous ice jams without any major repairs whatsoever!

of Relay

The bridge was named the Thomas Viaduct in honor of Phillip Thomas, the first president of the Baltimore and Ohio Railroad, and the man who initiated its construction. Before opening day ceremonies on July 4, 1835, it was known as Latrobe's Folley. When the first six and one-half ton engine, the Atlantic, pulled onto the bridge, many people closed their eyes for fear that all would fall into the river. When a second train successfully mounted the span, a great roar went up from the crowd that lined both sides of the river. Latrobe's Folley had become the eighth wonder of the world! Legend has it that McCartney was so excited when the bridge was opened that he had some of his workmen kneel on the ground while he baptized them with a bottle of liquor. It is a fact that when construction was completed, McCartney erected his own monument at the north end of the bridge, listing his name and the names of government and railroad officials connected with the project. Like the bridge, the monument still stands today.

and The Thomas

Viaduct

When the new line first opened, it ran only as far as Bladensburg, Maryland. Passensers completed their journey by stagecoach until tracks could be laid into the Capitol. Relay became known as Washington Junction, a name that did not last. The Thomas Viaduct was not only a major contribution to railroad development in America, but it also supplied the only connection from the north into the Nation's Capitol until well after the Civil War.

On February 14, 1845, James K. Polk of Tennessee became the first president elect to travel by train to his inauguration. President Polk travelled all day by coach from Cumberland to Relay. Two and one-half hours later he was in Washington.

Maryland,

An early engraving of the Thomas Viaduct looking down river from the Howard County shore. Note monument to left of bridge.

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THOMAS VIADUCT - 1835 - Relay. Reported to be the world's oldest multiple-arched railroad bridge, built by the Baltimore and Ohio Railroad to span the Patapsco between Relay and Elkridge. Designed by Benjamin H. Latrobe, a Baltimore architect, the bridge is built, on a curve, of huge blocks from the Granite Quarries. Named for Philip E. Thomas, first president of the Baltimore and Ohio. A National Historic Site.

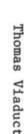
ST. TIMOTHY'S CHURCH (PROTESTANT EPISCOPAL) - 1844 - Ingleside Avenue. Of stone, Gothic style, designed by Robert Carey Long at a cost of \$10,000, one-half contributed by John Glenn, prominent landowner. Private girl's school, established 1872, continues today, but in another location.

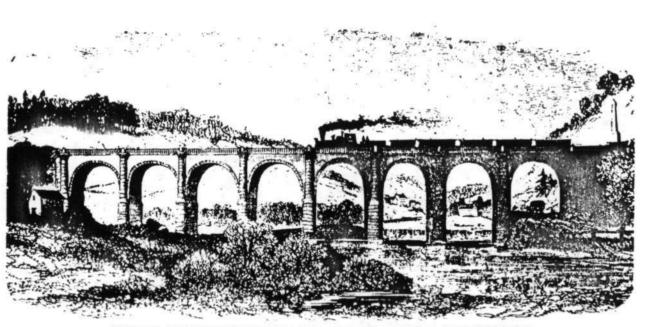
- OLD SALEM LUTHERAN CHURCH 1849 Ingleside Avenue. Founded by early German settlers in the Catonsville area. Sermons and day school conducted in German for many years.
- MT. de. SALES ACADEMY 1852 Edmondson Avenue and Academy Lane. A convent and school for girls, run by the Sisters of the Visitation.





OLD SALEM LUTHERAN CHURCH





GREAT STONE VIADUCT AT "WASHINGTON JUNCTION," BY WRICH THE "WASHINGTON BRANCH" OF THE BALTIMORE & ONIO RAILRUAD CROSSES THE PATAPECO RIVER, 9 MILES FROM BALTIMORE.

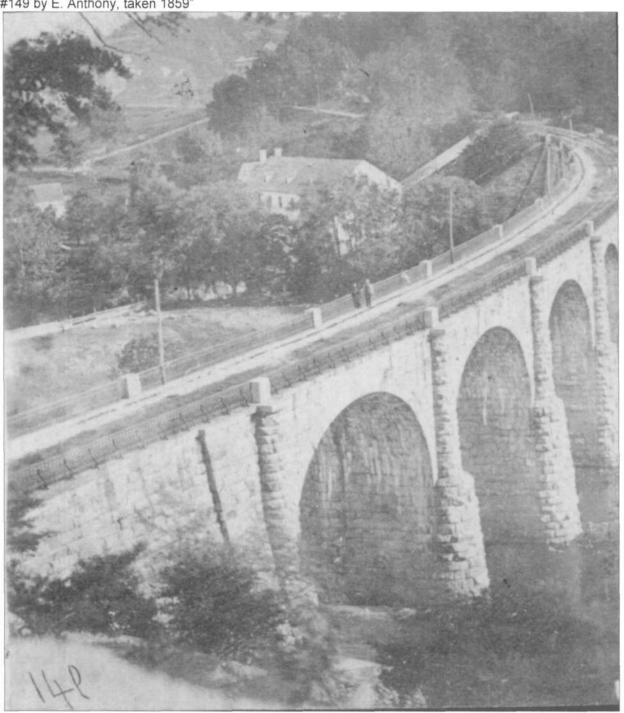
THE THOMAS VIADUCT - A NATIONAL HISTORIC SITE IN BALTIMORE COUNTY

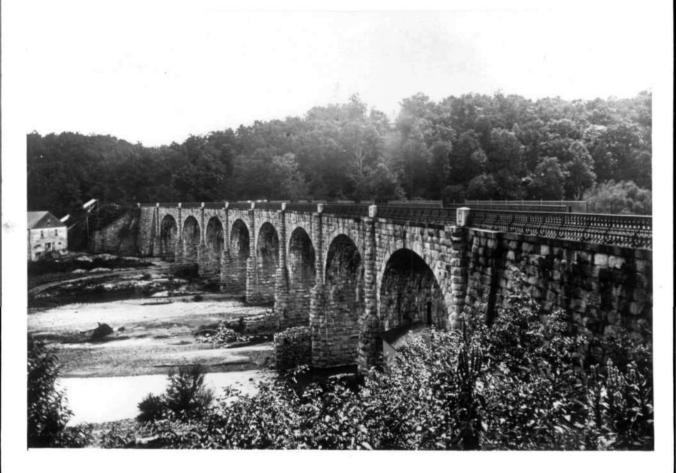
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Baltimore

HO-80 Thomas Viaduct Right half of stereograph labeled, "Thomas Viaduct, built 1835. Used by B&O to cross Patapsco River. #149 by E. Anthony, taken 1859"





B&O RR Collection # 678

THOMAS VIADUCT, HOWARD CTY,